Procedures for Setting up Windows XP Print Server

This process is used generally for printing problems with flow control at hosted installations.

The following symptoms may indicate a flow control issue:
- Numerous smaller print jobs getting stuck in queue.
- Getting the same print job repetitively (Print Looping).
- Mixed printing (Pages from another report printing in the middle of a job).
- End of Day will not print.

The following devices (print servers, firmware) have been known to experience problems with flow control:

- Lantronix Print Server (Any Model)
- Intel NetPort Express Print Server
- HP JetDirect Firmware
- Most other devices without a built-in hard drive.

To start, the site must have port 515 (TCP Printing) open to the IP address of the XP workstation. Find this by accessing the machine to be used as the server, and going to:

Start → Run → cmd
Click <OK>
Type: ipconfig
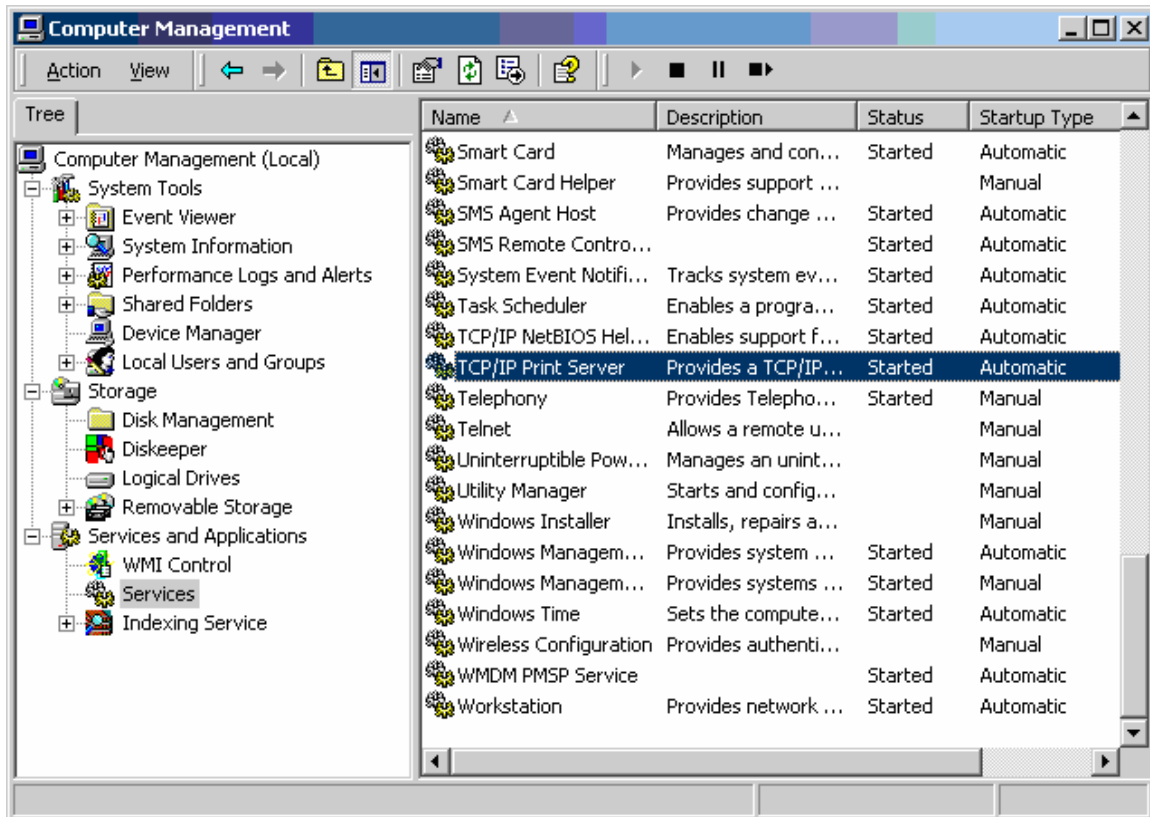The IP address of the machine will be listed.

To have the port opened; site will need to provide this IP to their DOIM and request that Port 515 be opened from data server at Fort Lee. (This is the server that the IFS database is stored on). To obtain this IP address, you may call IFS Customer Support at (804) 734-1051.

Once port is opened, begin by setting up the printer on that machine.
The following steps show how to create a local printer in Windows XP.

First, TCP Printing for UNIX must be enabled on the machine and set to automatically start. The following steps will accomplish this:

1. To check if TCP Printing is enabled on the workstation, right click **My Computer** on the desktop, and click on **Manage**.

2. Expand **Services and Applications.** Click on **Services** to pull down the list of available services.

3. Scroll down the list and find **TCP/IP Print Server** under the **Name** column. (highlighted below). If this service is not listed, refer to the following page for instructions on its installation.

| Name △	Description	Status	Startup Type
Smart Card	Manages and con...	Started	Automatic
Smart Card Helper	Provides support ...		Manual
SMS Agent Host	Provides change ...	Started	Automatic
SMS Remote Contro...		Started	Automatic
System Event Notifi...	Tracks system ev...	Started	Automatic
Task Scheduler	Enables a progra...	Started	Automatic
TCP/IP NetBIOS Hel...	Enables support f...	Started	Automatic
TCP/IP Print Server	Provides a TCP/IP...	Started	Automatic
Telephony	Provides Telepho...	Started	Manual
Telnet	Allows a remote u...		Manual
Uninterruptible Pow...	Manages an unint...		Manual
Utility Manager	Starts and config...		Manual
Windows Installer	Installs, repairs a...		Manual
Windows Managem...	Provides system ...	Started	Automatic
Windows Managem...	Provides systems ...	Started	Manual
Windows Time	Sets the compute...	Started	Automatic
Wireless Configuration	Provides authenti...		Manual
WMDM PMSP Service		Started	Automatic
Workstation	Provides network ...	Started	Automatic

4. Make sure this service is present **Status** is **Started**, as has **Startup Type** set to **Automatic**.

If TCP/IP Print Server is not present in the Services list, you will need to add the service using Add/Remove Windows Components.

1. Go to **Start → Settings → Control Panel**

2. Double click <**Add/Remove Programs>** then select **Add/Remove Windows Components** on the sidebar.

2

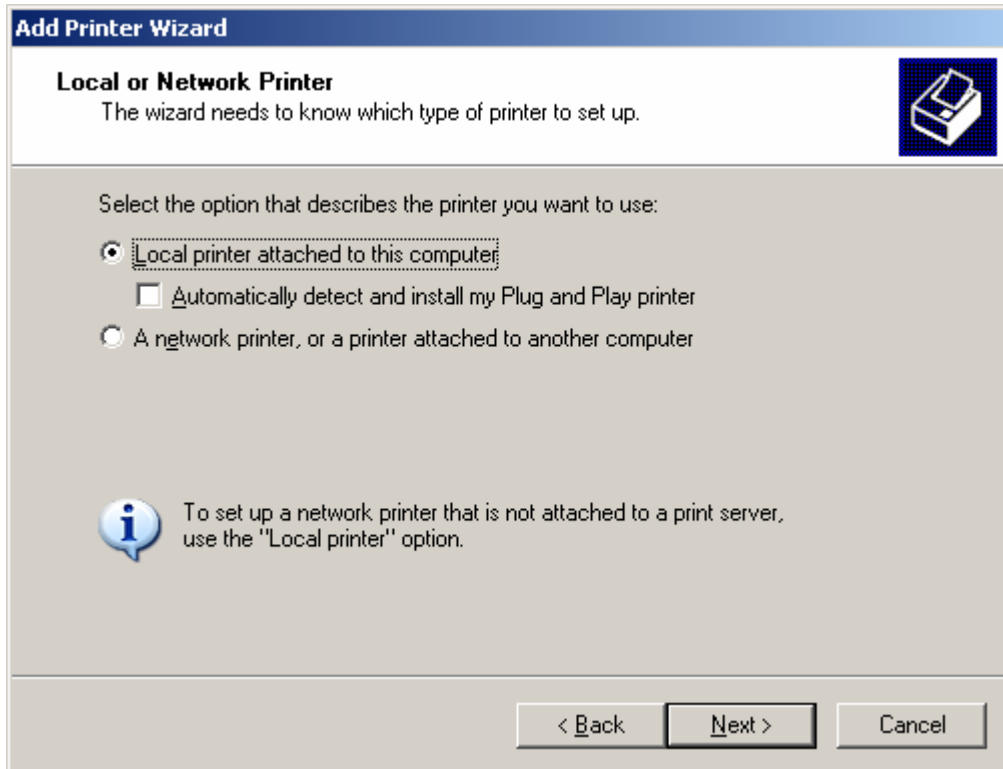3. Scroll down and highlight **Other Network File and Print Services**, then click the **Details...** button.
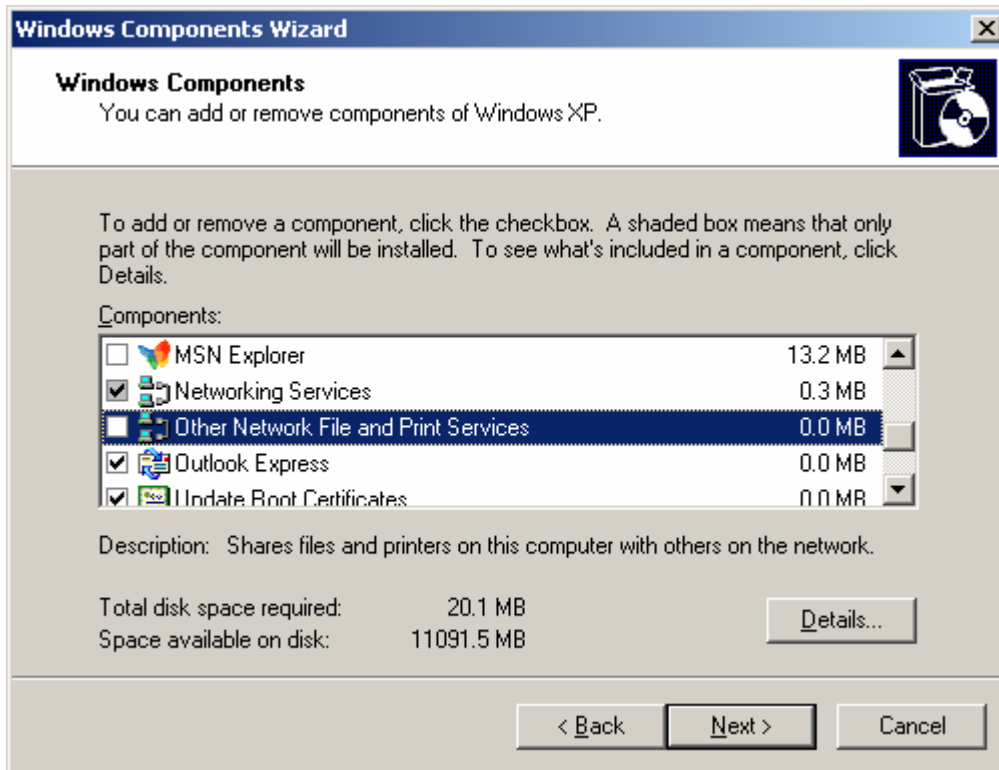
4. If **Print Services for Unix** option is not checked, check it and click <**OK**>.
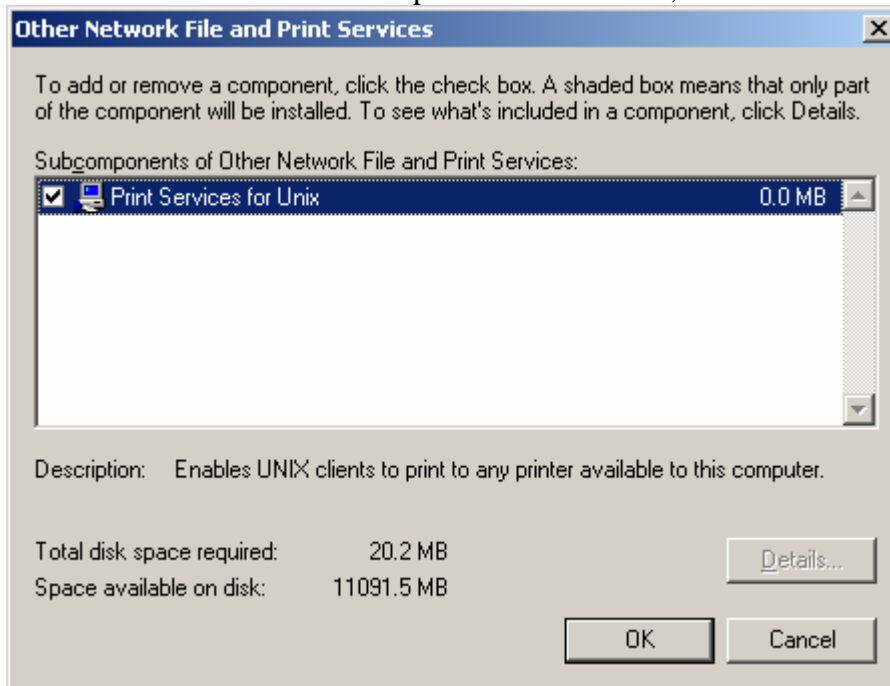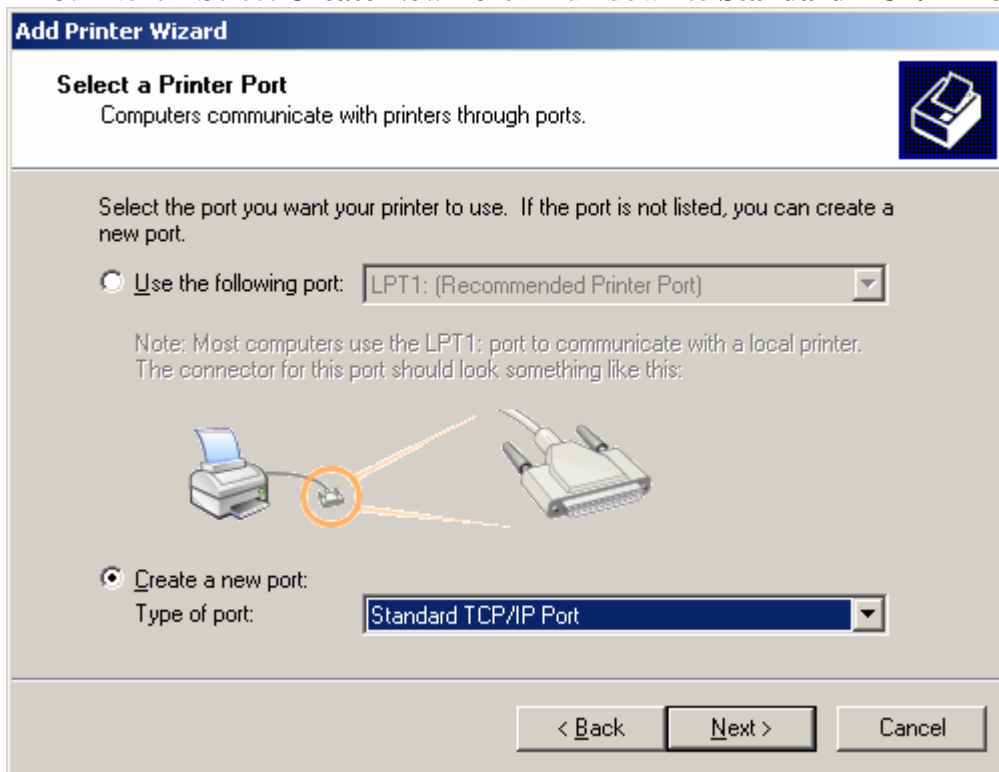
The following steps cover creation of the printer in Windows:

1. Start → Settings → Printers → Add Printer

2. Next → Select **Local Printer** → Uncheck **Automatically Detect and Install My Plug and Play Printer**

Add Printer Wizard

Local or Network Printer
The wizard needs to know which type of printer to set up.

Select the option that describes the printer you want to use:

⦿ Local printer attached to this computer

☐ Automatically detect and install my Plug and Play printer

○ A network printer, or a printer attached to another computer

To set up a network printer that is not attached to a print server, use the "Local printer" option.

[< Back]   [Next >]   [Cancel]

3. Next > Select **Create New Port** > Pull down to **Standard TCP/IP Port**
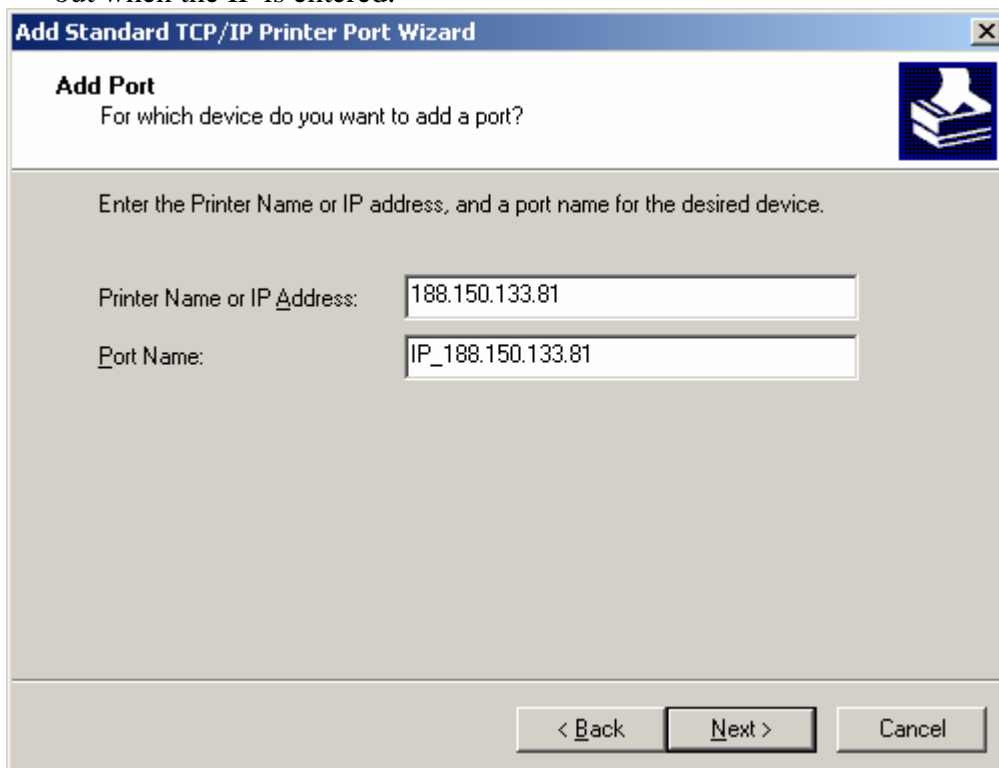
4. Next → Next → Type the IP address of the *printer* (not the print server) in the **Printer Name or IP Address:** field. The **Port Name** will be automatically filled out when the IP is entered.

5. You will be prompted to select the device type.
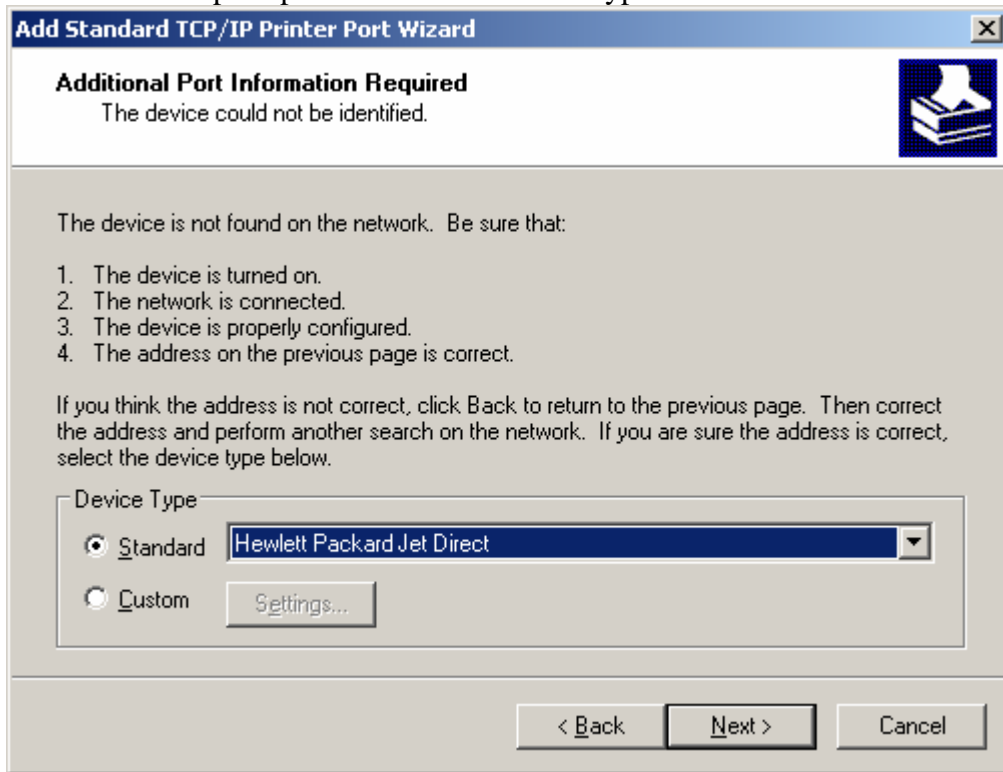
The following are common printers/servers and their corresponding device types:

- o HP JetDirect Firmware (Most HP LaserJet Printers)
  -Hewlett Packard Jet Direct

- o "Tally" or Genicom Printer
  -GENICOM microLaser Series Printer (most models)

- o For printers connected to multi-port parallel/serial network print servers,
  (Lantronix, Intel NetPort) LPR printing will need to be enabled
  and the queue name established. This is done by selecting
  Custom for Device Type and clicking on the **Settings…**
  button.

Configure Standard TCP/IP Port Monitor ? X

Port Settings

Port Name: IP_188.150.133.81

Printer Name or IP Address: 188.150.133.81

Protocol
○ Raw   ⦿ LPR

Raw Settings
Port Number: 9100

LPR Settings
Queue Name: EPS_01_TEXT
☐ LPR Byte Counting Enabled

☐ SNMP Status Enabled
Community Name: public
SNMP Device Index: 1

OK   Cancel

Select the **LPR** Protocol and in the **Queue Name** field, enter the Port or service name that the printer is attached to on the Lantronix/Intel box. Ex. For Lantronix, the port name usually begins with 'EPS'. Click <**OK>** then <**Next>** to continue.

*If you are unsure as to the device type you should select or none of the above work, please contact IFS Customer Support at (804) 734-1051.

6. Depending upon the previous device type selection, you may be prompted to select a Port ID. Refer to the settings on the device for this information
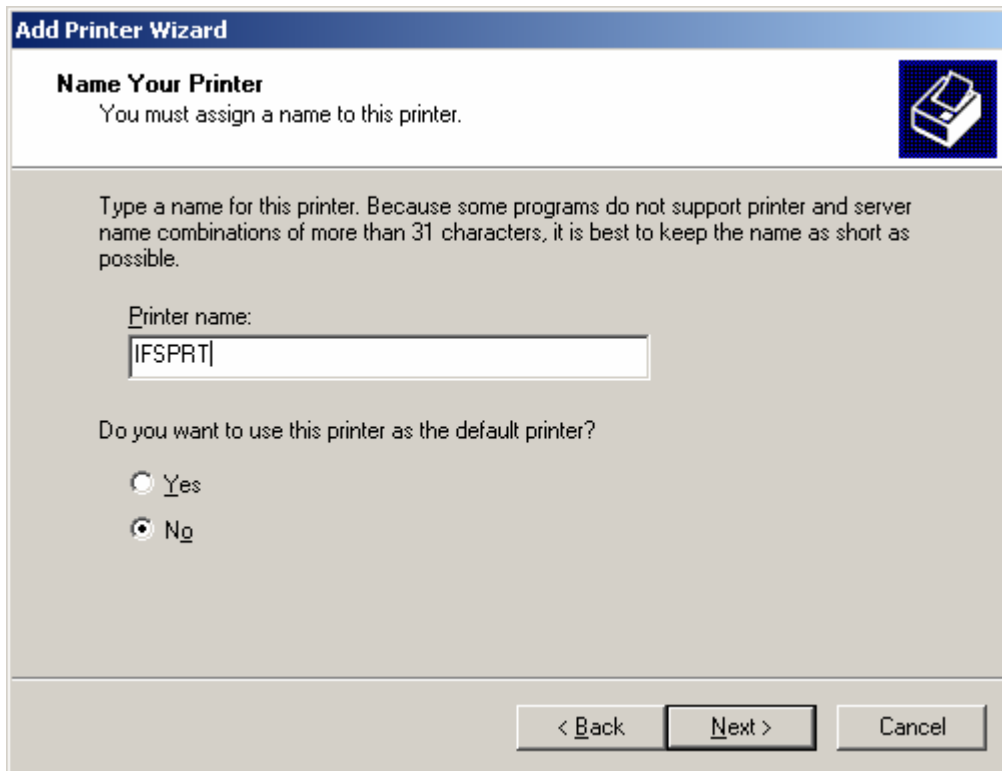
7. Next <**Finish**>.
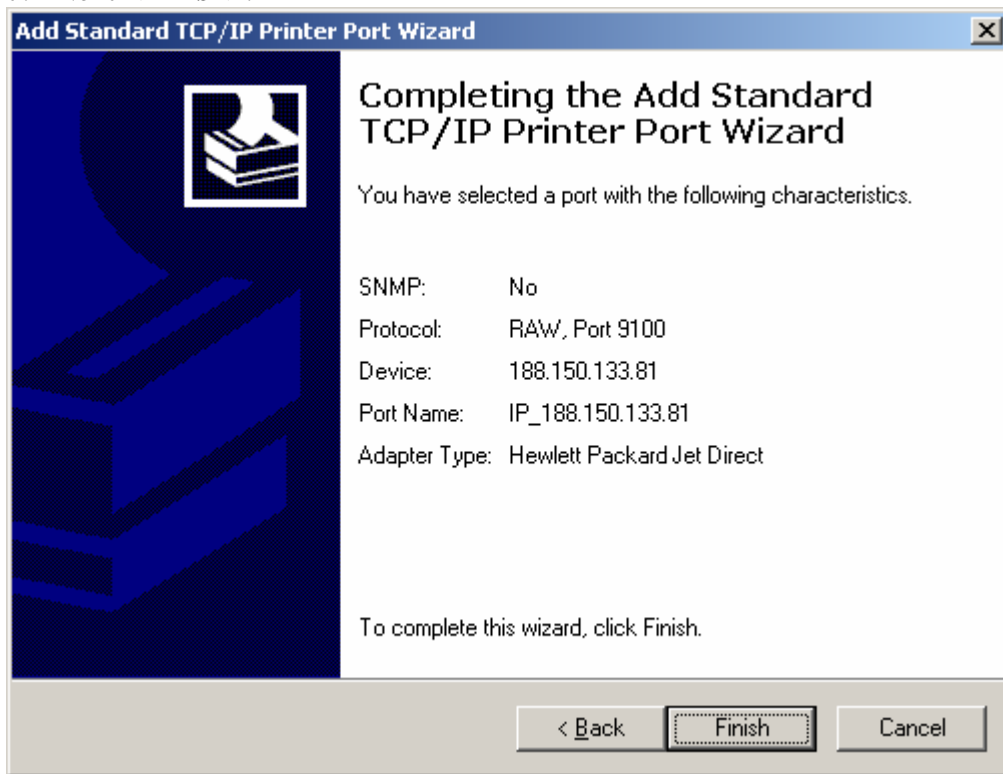
8. Next you will be prompted to load the driver for the printer. In most cases, the **Generic / Text Only** driver will work, as long as settings are correct. If not, locate the driver or load it from manufacturer's website.
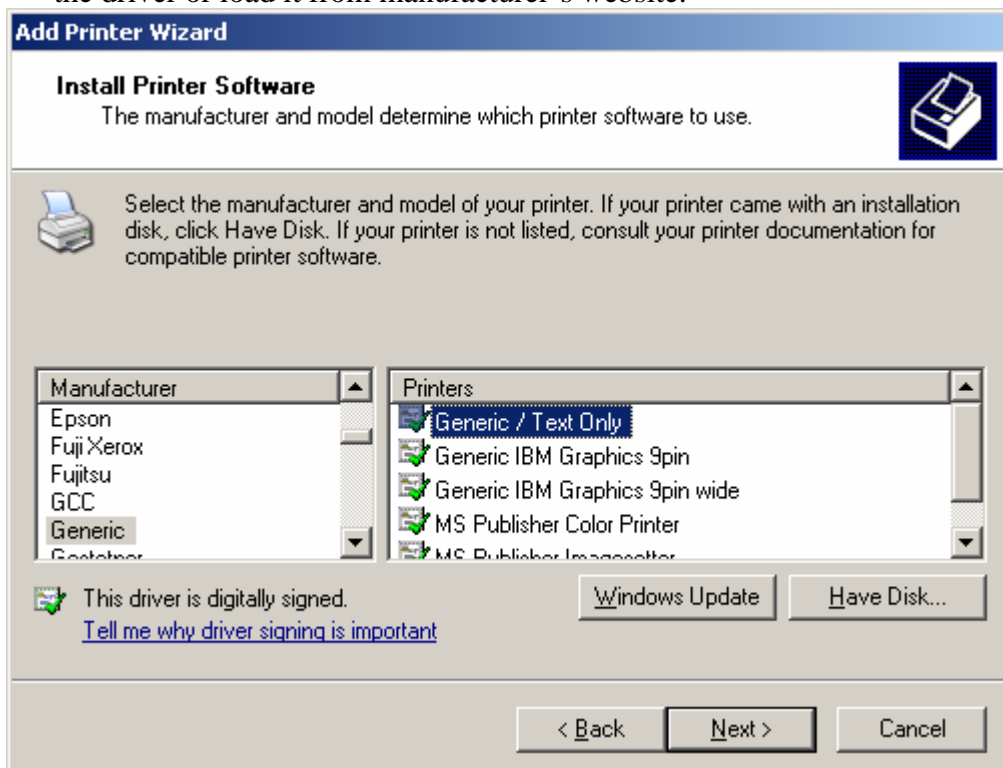
9. Next, the Wizard will prompt to Keep or Replace the existing driver you selected. Check **Keep existing driver (recommended)**. Click <**Next**>.

10. Next, supply a name for the printer (can be anything you choose). You are also asked whether you would like to use this printer as the default for Windows. Select **No** and press <**Next**>.

Add Printer Wizard

Name Your Printer
You must assign a name to this printer.

Type a name for this printer. Because some programs do not support printer and server name combinations of more than 31 characters, it is best to keep the name as short as possible.

Printer name:

IFSPRT

Do you want to use this printer as the default printer?

○ Yes
● No

< Back   Next >   Cancel

11. Printer Sharing is next, where you will be prompted to enter the shared name of the printer. This is important because it is how Fort Lee is able to access the printer on the Windows workstation. Coordinate with IFS Customer Support and select a shared name by selecting **Share as:** and typing the name in that field. Then press <**Next**> to continue.
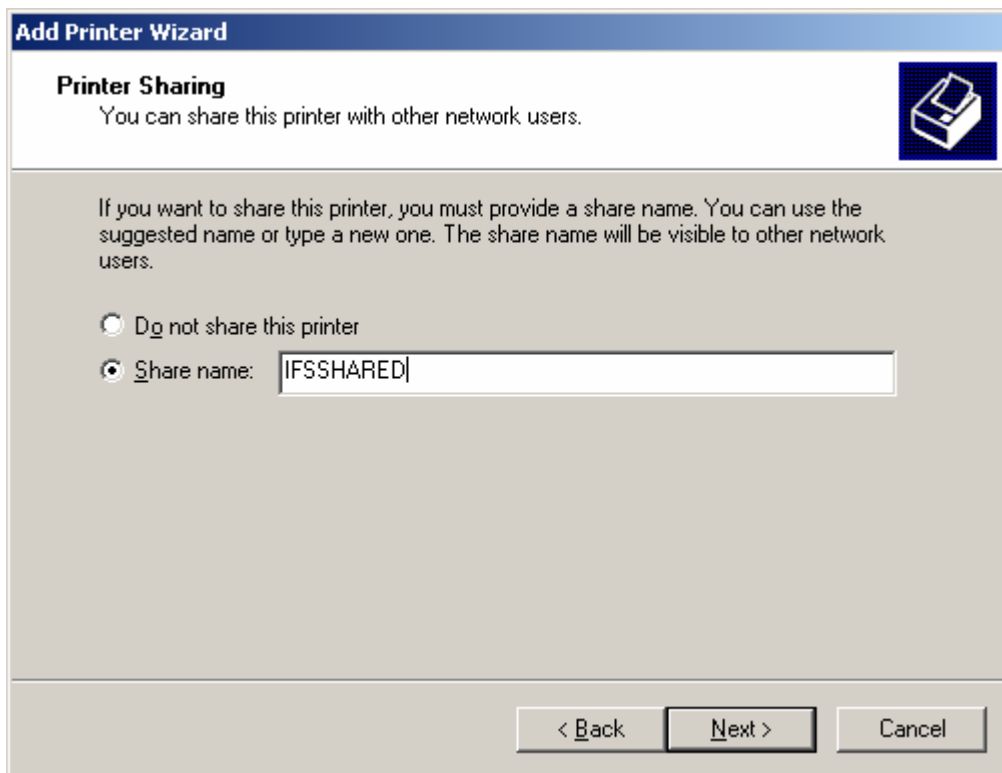
12. You may skip the next screen (**Location and Comment**) as it is not necessary for our configuration. Click <**Next**>.

13. The next screen prompts for a test page. Select **No** and click <Next>.

Add Printer Wizard

Print Test Page
To confirm that the printer is installed properly, you can print a test page.

Do you want to print a test page?

○ Yes

● No

< Back   Next >   Cancel
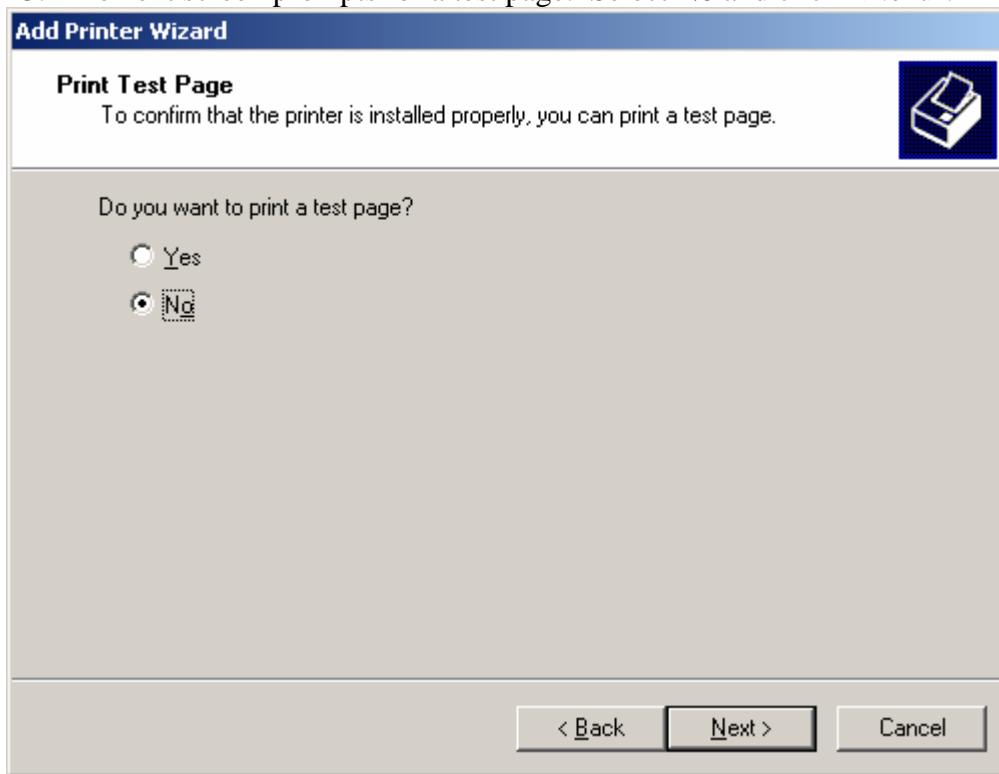
14. The final screen displays the settings for the printer. Verify this information
and click <**Finish**>. A test page will be sent to the printer.

Add Printer Wizard

Completing the Add Printer Wizard

You have successfully completed the Add Printer Wizard.
You specified the following printer settings:

Name: IFSPRT
Share name: IFSSHARED
Port: IP_188.150.133.81
Model: Generic / Text Only
Default: No
Test page: No
Location:
Comment:

To close this wizard, click Finish.

< Back   Finish   Cancel